Human CD34 (His Tag) recombinant protein

Catalog Number: 504179

General Information

Protein Construction

A DNA sequence encoding the extracellular domain of human CD34 precursor (NP_001020280.1) (Met 1-Thr 290) was expressed with a polyhistidine tag at the C-terminus.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

1. Measured by its ability to bind human CD62L in a functional ELISA.
2. Measured by the ability of the immobilized protein to support the adhesion of the HUVEC human umbilical vein endothelial cell line. When 4 x 10E4 cells/well are added to human CD34 coated plates (0.8 μg/ml, 100 μl/well), approximately >40 % will adhere after one hour at 37 ℃.

Purity

> 95 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70℃

Predicted N terminal

Ser 32

Molecular Mass

The secreted recombinant human CD34 consists of 270 amino acids after removal of the signal peptide and has a predicted molecular mass of 29 kDa. In SDS-PAGE under reducing conditions, rh CD34 migrates with the apparent molecular mass betwwen 40 and 50 kDa due to different glycosylation.

Formulation

Lyophilized from sterile PBS, pH 7.4
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

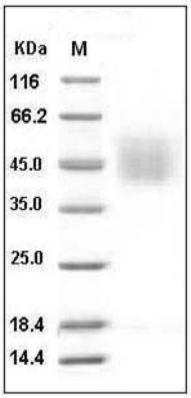
Storage

Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Human CD34 Protein (His Tag) SDS-PAGE